Straw Rocket

Kit contains:

- 1 Rocket template
- 1 Square of colored paper
- 1 Straw

You will need: tape, scissors, a pencil, and coloring supplies.

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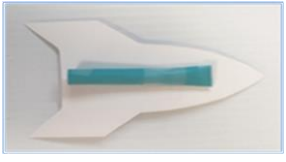
INSTRUCTIONS

Step 1. Color your rocket to create a personalized spacecraft. Then cut out the rocket.

Step 2. Put a pencil on the edge of the paper square. Roll the paper around the pencil to make a tube, and tape it down the long side.

Step 3. Flatten one end of the paper tube between your fingertips and seal that flattened end with tape.

Step 4. Tape your paper tube to the back of your rocket. (The flattened end of the tube points toward the top of the rocket).



Step 5. Insert the straw into the paper tube, and your rocket is ready for takeoff. Blow through the straw to launch your rocket!

How far, and how high, can you make your rocket fly?

IT'S NOT ROCKET SCIENCE... (actually, it is)

Rockets work by expelling hot exhaust gases out of a nozzle. These gases exert a pressure on the rocket to push it forward. Straw rockets work in a similar way to full-sized rockets. Unlike traditional rockets, our straw rockets do not carry their own propellants. Instead, a sharp puff of air through the straw fills the rocket tube with "high pressure" air. The tube directs the air back through the opening, producing an action force that makes our rocket launch. The rocket launches because of the equal and opposite reaction force (**Newton's third law of motion**).